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WHAT IS CLAIMED IS:

1. A developer cartridge container comprising:

5 a container body including a cylindrical body having an opening at one end and a bottom wall member provided at the other end opposite from the one end, the cylindrical body and the bottom wall member defining a developer storage chamber having the opening for filling developer at one end; and

10 a closing lid including a detachable portion capable of being attached to and detached from the container body and a developer discharge port for closing the opening of the developer storage chamber in a state of being attached to the container body.

15 2. A developer cartridge container according to Claim 1, wherein:

the closing lid includes a cylindrical wall formed with the detachable portion capable of being attached to or detached from the container body;

20 an end wall is connected to an outer end of the cylindrical wall opposite from the container body;

a developer discharge port is provided at the outer end of the cylindrical wall or the outer peripheral surface of the end wall; and

25 the closing lid closes the opening of the developer storage

chamber in a state of being attached to the container body.

3. A developer cartridge container according to Claim 2, wherein

5 the closing lid includes a coupler mounting portion provided at the center of the end wall.

4. A developer cartridge container according to Claim 1, wherein:

10 the closing lid is formed with a cylindrical developer discharge tube having an axis parallel with an axis of the cylindrical body of the container body; and

the developer discharge port is formed at the outer end of the developer discharge tube.

15

5. A developer cartridge container according to Claim 2, wherein:

the cylindrical wall is formed with the cylindrical developer discharge tube having an axis parallel with the axis  
20 of the cylindrical body of the container body; and

the developer discharge port formed at the outer end of the developer discharge tube.

6. A developer cartridge container according to Claim  
25 1, wherein

the container body is formed integrally with the cylinder body and the bottom wall member.

7. A developer cartridge container according to Claim  
5 1, wherein

the container body in which the cylinder body and the bottom wall member are detachably provided.

8. A developer cartridge container according to Claim  
10 1, further comprising

a handle that is provided on the outer surface of the bottom wall member, wherein

the handle and the bottom wall member are integrally formed.

15 9. A developer cartridge container according to Claim 1, further comprising:

a resilient thin wall container for storing developer formed of resilient thin wall material accommodated in the container body and having an opening to be disposed inside the  
20 opening of the container body.

10. A developer cartridge container according to Claim 9, further comprising

a cylindrical connecting member including  
25 container-body-side connecting portions having a cylindrical

insertion member to be inserted from the opening of the container body into the container body and to be detachably connected to the container body, and a closing-lid-side connecting portion to be connected to a detachable portion of the closing lid, wherein

5       the resilient thin wall container includes the opening to be fixed in a state of being adhered tightly to the outer peripheral surface of the cylindrical insertion portion of the cylindrical connecting member.

10       11.     A developer cartridge container according to Claim 10, wherein

the cylindrical connecting member in which a connecting portion of one of the container- body-side connecting portions and the closing-lid-side connecting portion is configured so  
15 as to be broken when disconnected after connected to the container body or the closing lid so that it cannot be reused.

12.     A developer cartridge container according to Claim 9, further comprising:

20       a cylindrical wall having the cylindrical insertion portion to be inserted into the container body from the opening of the container body, wherein:

the resilient thin wall container includes the opening to be attached in a tightly adhered state to the outer peripheral  
25 surface of the cylindrical insertion portion; and

the closing lid is formed with an openable-closable filling port for filling developer into the resilient thin wall container attached to the cylindrical insertion portion.

5           13.     A developer cartridge container according to Claim 9, further comprising:

an opening fixing members for fixing the opening of the resilient thin wall container to the opening of the container body, wherein

10           the resilient thin wall container includes the opening to be attached to the opening of the container body in a tightly adhered state.

14.     A developer cartridge container according to Claim 15 13, wherein

the opening fixing members is fixed to the opening of the resilient thin wall container.

15.     A developer cartridge comprising:

20           a container body including a cylindrical body having an opening at one end and a bottom wall member provided at the other end opposite from the one end, the cylindrical body and the bottom wall member defining a developer storage chamber having the opening for filling developer at one end; and

25           a closing lid including a detachable portion capable of

being attached to and detached from the container body and a developer discharge port for closing the opening of the developer storage chamber in a state of being attached to the container body;

5       a coupler for transmitting a rotational force supported by the developer cartridge container;

      a developer mixing member accommodated in the developer cartridge container and connected to the coupler; and

      a discharge port opening-closing member for opening and  
10   closing the developer discharge port formed on the developer cartridge container.

16.    A developer cartridge comprising:

      a container body including a cylindrical body having an  
15   opening at one end and a bottom wall member provided on the other end opposite from the one end, the cylindrical body and the bottom wall member defining a developer storage chamber having the opening for filling developer at one end;

      a closing lid including a detachable portion that can be  
20   attached to and detached from the container body, and a cylindrical developer discharge tube extending along an axis of the cylinder of the container body and being formed with a developer discharge port at the outer end thereof, and the closing lid closing the opening of the developer storage chamber in a  
25   state of being attached to the container body;

a coupler for transmitting a rotational force rotatably supported by the closing lid;

a developer mixing member accommodated in the container body and connected to the coupler.

5 a developer discharging auger rotatably accommodated in the cylindrical developer discharge tube.

a discharge port opening-closing member including a fitting portion to be detachably fitted to the developer discharge port, an auger connecting portion to which the outer end of the developer  
10 discharging auger is connected, a shaft projecting outwardly of the developer discharge tube, and a connecting portion for transmitting a rotational force provided at the outer end of the shaft, the discharge port opening-closing member closing the developer discharge port in a state of being fitted to the  
15 developer discharge port, opening the developer discharge port in a state of being disconnected from the developer discharge port, and being rotatable integrally with the auger in the detached state.

20 17. A developer cartridge according to Claim 16, wherein the developer discharging auger is formed of a coil spring.

18. A developer cartridge according to Claim 16, further comprising:

25 a resilient thin wall container for storing developer



formed of resilient thin wall material detachably accommodated in the container body and having an opening to be disposed inside the opening of the container body.

5           19.   A method of recycling a developer cartridge container comprising:

          a container body including a developer storage chamber having an opening at one end;

          a closing lid including a cylindrical wall having a  
10   cylindrical insertion portion to be inserted from the opening, an end wall connected to the outer end opposite from the cylindrical insertion portion of the cylindrical wall and having a coupler mounting portion and a filling port, and a developer discharge port, the closing lid closing the opening of the  
15   developer storage chamber in a state of being fitted to the container body;

          a resilient thin wall container having an opening to be attached to the outer peripheral surface of the cylindrical insertion portion of the cylindrical wall in a tightly adhered  
20   state and stored in the container body,

          wherein the resilient thin wall container is not reused and the container body and the closing lid are washed and reused.

          20.   A method of recycling the developer cartridge  
25   container comprising:

a container body including a developer storage chamber having an opening at one end;

a closing lid including a cylindrical wall formed with a detachable portion capable of being attached to and detached  
5 from the container body, an end wall connecting the outer end of the cylindrical wall on the opposite side from the container body and having a coupler mounting portion, and an developer discharge port formed in the cylindrical wall or the end wall, for closing the opening of the developer storage chamber in a  
10 state of being attached to the container body;

a resilient thin wall container including an opening to be attached to the opening of the container body in a tightly adhered state, the resilient thin wall container being accommodated in the container body,

15 wherein the resilient thin wall container is not reused, and the container body and the closing lid are washed and reused.

21. A method of recycling a developer cartridge container comprising:

20 a container body including a developer storage chamber having an opening at one end;

a closing lid including a cylindrical wall, an end wall connected to the cylindrical wall and having a coupler mounting portion, a developer discharge port formed in the end wall or  
25 the cylindrical wall, and a detachable portion detachable to

the container body;

a cylindrical connecting member including a  
container-body-side connecting portion having a cylindrical  
insertion portion to be inserted from the opening of the container  
5 body into the container body and being detachably connected to  
the container body at one end and a closing-lid-side connecting  
portion being connected to the detachable portion of the closing  
lid at the other end; and

a resilient thin wall container having an opening to be  
10 attached to the outer peripheral surface of the cylindrical  
insertion portion of the cylindrical connecting member in a  
tightly adhered state and being accommodated into the container  
body,

wherein the resilient thin wall container is not reused  
15 and the container body and the closing lid are washed and reused.

22. A method of recycling a developer cartridge  
container comprising:

a container body including a developer storage chamber  
20 having an opening at one end;

a closing lid including a cylindrical wall, an end wall  
connected to the cylindrical wall and having a coupler mounting  
portion, a developer discharge port formed in the end wall or  
the cylindrical wall, and a detachable portion detachable to  
25 the container body;

a cylindrical connecting member including a container-body-side connecting portion having a cylindrical insertion portion to be inserted from the opening of the container body into the container body and being detachably connected to the container body at one end and a closing-lid-side connecting portion being connected to the detachable portion of the closing lid at the other end; and

a resilient thin wall container having an opening to be attached to the outer peripheral surface of the cylindrical insertion portion of the cylindrical connecting member in a tightly adhered state, being formed of the same material as the cylindrical connecting member, and accommodated in the container body,

wherein the spent developer cartridge container is disassembled into the container body, the closing lid, and the cylindrical connecting member to which the resilient thin wall container is mounted, and in that the resilient thin wall container and the cylindrical connecting member are not reused, and the developer cartridge container is formed by assembling the washed container body, the washed closing lid, a new resilient thin wall container, and a new cylindrical connecting member.

23. A method of recycling a developer cartridge container comprising:

a container body including an developer storage chamber

having an opening at one end;

a closing lid including a cylindrical wall, an end wall connected to the cylindrical wall and having a coupler mounting portion, a developer discharge port formed in the end wall or  
5 the cylindrical wall, and a detachable portion detachable to the container body;

a cylindrical connecting member including a container-body-side connecting portion having a cylindrical insertionportion to be inserted from the opening of the container  
10 body into the container body and being detachably connected to the container body at one end and a closing-lid-side connecting portion being connected to the detachable portion of the closing lid at the other end, a connecting portion of one of the container-body-side connecting portion and the  
15 closing-lid-side connecting portion being configured so as to be broken when disconnected after connected to the container body or the closing lid so that it cannot be reused; and

a resilient thin wall container having an opening to be attached to the outer peripheral surface of the cylindrical  
20 insertion portion of the cylindrical connecting member in a tightly adhered state, being formed of the same material as the cylindrical connecting member, and accommodated in the container body,

wherein the spent developer cartridge container is  
25 disassembled into the container body, the lid member, and the

cylindrical connecting member to which the resilient thin wall container is mounted, and in that the cylindrical connecting member and the resilient thin wall container, which are broken when disassembled and hence are disabled, are not reused, and  
5 the developer cartridge container is formed by assembling the washed container body, the washed closing lid, a new resilient thin wall container, and a new cylindrical connecting member.

24. A method of recycling a developer cartridge  
10 container comprising:

a container body including an developer storage chamber having an opening at one end;

a closing lid including a cylindrical wall, an end wall connected to the cylindrical wall and having a coupler mounting  
15 portion, a developer discharge port formed in the end wall or the cylindrical wall, and a detachable portion detachable to the container body;

a cylindrical connecting member including a container-body-side connecting portion having a cylindrical  
20 insertion portion to be inserted from the opening of the container body into the container body and being detachably connected to the container body at one end and a closing-lid-side connecting portion being connected to the detachable portion of the closing lid at the other end, a connecting portion of one of the  
25 container-body-side connecting portion and the

closing-lid-side connecting portion being configured so as to be broken when disconnected after connected to the container body or the closing lid so that it cannot be reused;

5 a resilient thin wall container having an opening to be attached to the outer peripheral surface of the cylindrical insertion portion of the cylindrical connecting member in a tightly adhered state, being formed of the same material as the cylindrical connecting member, and accommodated in the container body;

10 a coupler for transmitting a rotational force rotatably supported at the center of the end wall of the closing lid;

a developer mixing member accommodated in the developer cartridge container and connected to the coupler;

15 a developer discharging auger rotatably accommodated in the cylindrical developer discharge tube;

a discharge port opening-closing member including a fitting portion to be detachably fitted to the developer discharge port, an auger connecting portion to which the outer end of the developer discharging auger is connected, a shaft  
20 projecting outwardly of the developer discharge tube, and a connecting portion for transmitting a rotational force provided at the outer end of the shaft, the discharge port opening-closing member closing the developer discharge port in a state of being fitted to the developer discharge port, opening the developer  
25 discharge port in a state of being disconnected from the developer

discharge port, and being rotatable integrally with the developer  
auger in the disconnected state,

wherein the spent developer cartridge is disassembled into  
the container body, the closing lid to which the coupler and  
5 the developer mixing member are mounted, the discharge port  
opening-closing member to which the developer discharge auger  
is connected, and the cylindrical connecting member to which  
the resilient thin wall container is mounted, and  
wherein the cylindrical connecting member and the resilient thin  
10 wall container, which are broken when disassembled and hence  
are disabled, are not reused, the container body, the closing  
lid to which the coupler and the developer mixing member are  
mounted, and the discharge port opening-closing member to which  
the auger is connected are washed, and the developer cartridge  
15 is formed by assembling the washed parts with a new cylindrical  
connecting member and a new resilient thin wall container.